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Yields of the Field Experiments 2003

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Results of the
Classical
and other
Long-term Experiments
2003

Rothamsted Research

03/R/CS/326 and 03/W/CS/326 - Amount of Straw

Rothamsted Research

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03/R/CS/326 and 03/W/CS/326

AMOUNTS OF STRAW

Object: To study the effects of different amounts of straw, incorporated into the soil, on w. wheat - Rothamsted (R) Great Knott III, Woburn (W) Far Field I.

Sponsors: M.J. Glendining, P.C. Brookes.

The 16th year, w. wheat.

For previous years see 87-02/R & W/CS/326.

Design: 4 randomised blocks of 4 plots (R).
3 randomised blocks of 4 plots (W).

Whole plot dimensions: 3.0 x 13.5 (R). 0.004 ha
3.0 x 14.5 (W).

Treatments:

STRAW Amounts of straw incorporated into the seedbed, cumulative to previous annual dressings:

		R	W
NONE	None	-	-
NORMAL	Normal	3.60	3.11
2 NORMAL	Twice normal	7.21	6.22
4 NORMAL	Four times normal	14.42	12.45

Experimental diary:

Great Knott III (R):

14-Aug-02 : T : : Straw treatments applied.
18-Aug-02 : T : : Chopped straw.
17-Sep-02 : B : : Ploughed 25 cm furrows.
18-Sep-02 : B : : Combination drilled, Hereward, tr. Sibutol Secur, at
200 seeds/m² with the Accord 2 drill.
24-Sep-02 : B : : Crystal at 4.0 l in 200 l.
10-Mar-03 : B : : Sulphur Gold at 167 kg.
10-Mar-03 : B : : Sulphur Gold at 167 kg.
29-Apr-03 : B : : 33.5% N at 448 kg.
07-May-03 : B : : tm)Ally at 30 g in 200 l.
: B : : tm)Starane 2 at 0.75 l in 200 l.
10-May-03 : B : : tm)Opus at 0.5 l in 200 l.
: B : : tm)Amistar at 0.6 l in 200 l.
28-May-03 : B : : tm)Opus at 0.5 l in 200 l.
: B : : tm)Twist at 1.0 l in 200 l.
04-Aug-03 : B : : Combine harvested discards.
06-Aug-03 : B : : Combine harvested plots for yield.
07-Aug-03 : T : : Straw weighed.
: B : : Combine harvested discards.

03/R/CS/326

GRAIN TONNES/HECTARE

***** Tables of means *****

STRAW	
NONE	7.24
NORMAL	7.26
2 NORMAL	7.11
4 NORMAL	7.14
Mean	7.19

*** Standard errors of differences of means ***

STRAW
0.152

***** Stratum standard errors and coefficients of variation *****

Stratum	d.f.	s.e.	cv%
Blocks.Plots	9	0.215	3.0

GRAIN MEAN DM% 90.9

STRAW TONNES/HECTARE

***** Tables of means *****

STRAW	
NONE	1.95
NORMAL	2.21
2 NORMAL	2.13
4 NORMAL	2.61
Mean	2.22

STRAW MEAN DM% 92.0

PLOT AREA HARVESTED 0.00284

03/W/CS/326

GRAIN TONNES/HECTARE

***** Tables of means *****

STRAW	
NONE	6.29
NORMAL	6.25
2 NORMAL	6.22
4 NORMAL	6.23
Mean	6.25

*** Standard errors of differences of means ***

STRAW
0.079

***** Stratum standard errors and coefficients of variation *****

Stratum	d.f.	s.e.	cv%
Blocks.Plots	6	0.096	1.5
GRAIN MEAN DM%	91.2		

STRAW TONNES/HECTARE

***** Tables of means *****

STRAW	
NONE	2.27
NORMAL	2.00
2 NORMAL	2.48
4 NORMAL	2.14
Mean	2.22

STRAW MEAN DM% 93.9

PLOT AREA HARVESTED 0.00294